

FILE 'HOME' ENTERED AT 17:04:17 ON 17 AUG 2000

=> file req

COST IN U.S. DOLLARS

| SINCE FILE ENTRY | TOTAL SESSION |
|------------------|---------------|
| 0.15 | 0.15 |

FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 17:04:23 ON 17 AUG 2000
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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STRUCTURE FILE UPDATES: 16 AUG 2000 HIGHEST RN 286401-45-4
DICTIONARY FILE UPDATES: 16 AUG 2000 HIGHEST RN 286401-45-4

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 11, 2000

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Structure search limits have been increased. See HELP SLIMIT
for details.

=>
Uploading 09344226.str

L1 STRUCTURE UPLOADED

=> s 11

SAMPLE SEARCH INITIATED 17:04:46 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 22 TO ITERATE

4 ANSWERS

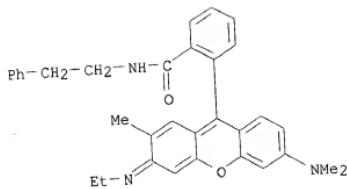
100.0% PROCESSED 22 ITERATIONS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
 BATCH **COMPLETE**
PROJECTED ITERATIONS: 159 TO 721
 4 TO 200
PROJECTED ANSWERS:

L2 4 SEA SSS SAM L1

=> d scan

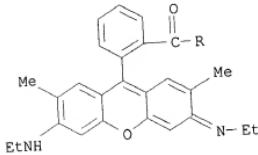
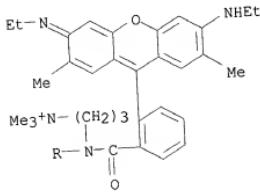
L2 4 ANSWERS REGISTRY COPYRIGHT 2000 ACS
IN Benzamide,
2-[6-(dimethylamino)-3-(ethylimino)-2-methyl-3H-xanthen-9-yl]-N-
(2-phenylethyl)-(9CI)
MF C33 H33 N3 O2



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

L2 4 ANSWERS REGISTRY COPYRIGHT 2000 ACS
 IN 1-Propanaminium, 3-[bis[2-{6-(ethylamino)-3-(ethylimino)-2,7-dimethyl-3H-xanthen-9-yl}benzoyl]amino]-N,N-trimethyl-, methyl sulfate (9CI)
 MF C₅₈H₆₅N₆O₄ · C H₃O₄ S

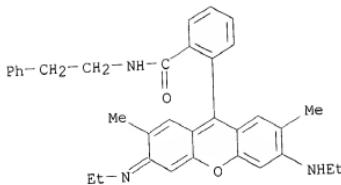
CM 1



CM 2

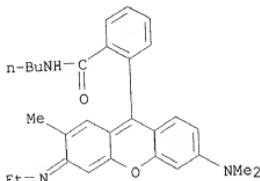
Me-O-SO₃⁻

L2 4 ANSWERS REGISTRY COPYRIGHT 2000 ACS
 IN Benzamide,
 2-[6-(ethylamino)-3-(ethylimino)-2,7-dimethyl-3H-xanthen-9-yl]-
 N-(2-phenylethyl)- (9CI)
 MF C₃₄H₃₅N₃O₂



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

L2 4 ANSWERS REGISTRY COPYRIGHT 2000 ACS
 IN Benzamide,
 N-butyl-2-[6-(dimethylamino)-3-(ethylimino)-2-methyl-3H-xanthen-9-yl]- (9CI)
 MF C₂₉H₃₃N₃O₂



ALL ANSWERS HAVE BEEN SCANNED

=> s 11 ful

FULL SEARCH INITIATED 17:05:13 FILE 'REGISTRY'
 FULL SCREEN SEARCH COMPLETED - 307 TO ITERATE

32 ANSWERS

100.0% PROCESSED 307 ITERATIONS
 SEARCH TIME: 00.00.01

L3 32 SEA SSS FUL LL

=> file caplus

COST IN U.S. DOLLARS

| SINCE FILE ENTRY | TOTAL SESSION |
|------------------|---------------|
| 126.60 | 126.75 |

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 17:05:20 ON 17 AUG 2000
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FILE COVERS 1967 - 17 Aug 2000 VOL 133 ISS 8
FILE LAST UPDATED: 16 Aug 2000 (20000816/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

This file supports REGISTRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

Now you can extend your author, patent assignee, patent information, and title searches back to 1907. The records from 1907-1966 now have this searchable data in CAOLD. You now have electronic access to all of CA: 1907 to 1966 in CAOLD and 1967 to the present in CAPLUS on STN.

=> s 13

L4 3 L3

=> d 14 ibib abs hitstr 1-3

L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2000 ACS
ACCESSION NUMBER: 1990:218769 CAPLUS
DOCUMENT NUMBER: 112:218769
TITLE: Basic rhodamine dyes, jet-printing inks containing them, and their use in dyeing paper
INVENTOR(S): Mayer, Udo; Oberlinner, Andreas
PATENT ASSIGNEE(S): BASF A.-G., Fed. Rep. Ger.
SOURCE: Eur. Pat. Appl., 6 PP.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------------------------------|------|-------------------|-----------------|----------|
| EP 347697 | A2 | 19891227 | EP 1989-110567 | 19890610 |
| EP 347697 | A3 | 19910227 | | |
| EP 347697 | B1 | 19931110 | | |
| R: AT, CH, DE, FR, GB, IT, LI, NL, SE | | | | |
| DE 3821196 | A1 | 19900215 | DE 1988-3821196 | 19880623 |
| CA 1339276 | A1 | 19970812 | CA 1989-601818 | 19890605 |
| AT 97153 | E | 19931115 | AT 1989-110567 | 19890610 |
| US 4935059 | A | 19900619 | US 1989-366450 | 19890615 |
| FI 8903045 | A | 19891224 | FI 1989-3045 | 19890621 |
| FI 91268 | B | 19940228 | | |
| FI 91268 | C | 19940610 | | |
| JP 02051563 | A2 | 19900221 | JP 1989-159827 | 19890623 |
| PRIORITY APPLN. INFO.: | | | DE 1988-3821196 | 19880623 |
| OTHER SOURCE(S): | | MARPAT 112:218769 | EP 1989-110567 | 19890610 |
| G1 | | | | |

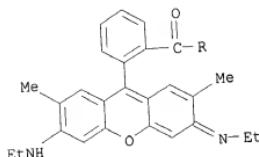
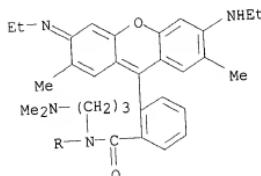
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Basic dyes I [A- = anion; L = C2-10 alkylene; R1-R3 = H, (un)substituted C1-10 alkyl or C5-7 cycloalkyl, or R1R2N = pyrrolidino, piperidino, morpholino, piperazine, N-(C1-4 alkyl)piperazine; m, n = 0, 1] are useful for dyeing paper materials or as colorants for jet-printing inks. Thus, II was heated with Me2N(CH2)3NH2 in the presence of P2O5 at 120.degree. for 6 h, producing I (L = CH2CH2CH2, R1 = R2 = Me, m = n = 0),

.lambda.max 534 nm, which dyed paper a brilliant, fast red shade.

IT 125282-76-0P
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation)
(manuf. and quaternization of, as red dye for paper and jet-printing
inks)

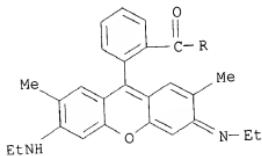
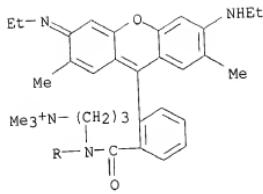
RN 125282-76-0 CAPLUS
CN Benzamide, N-[3-(dimethylamino)propyl]-2-[6-(ethylamino)-3-(ethylimino)-
2,7-dimethyl-3H-xanthen-9-yl]-N-[2-[6-(ethylamino)-3-(ethylimino)-2,7-
dimethyl-3H-xanthen-9-yl]benzoyl]- (9CI) (CA INDEX NAME)



IT 127193-48-0P
RL: PREP (Preparation)
(manuf. of, as dye for paper and jet-printing inks)
RN 127193-48-0 CAPLUS
CN 1-Propanaminium, 3-[bis[2-[6-(ethylamino)-3-(ethylimino)-2,7-dimethyl-3H-
xanthen-9-yl]benzoyl]amino]-N,N,N-trimethyl-, methyl sulfate (9CI) (CA
INDEX NAME)

CM 1

CRN 127193-47-9
CMF C58 H65 N6 O4



CM 2

CRN 21228-90-0

CMF C H3 O4 S

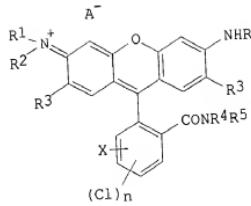
Me-O-SO₃⁻

L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2000 ACS
 ACCESSION NUMBER: 1986:610416 CAPLUS
 DOCUMENT NUMBER: 105:210416
 TITLE: Rhodamine dyes
 INVENTOR(S): Mayer, Udo; Oberlinner, Andreas
 PATENT ASSIGNEE(S): BASF A.-G., Fed. Rep. Ger.
 SOURCE: Ger. Offen., 12 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

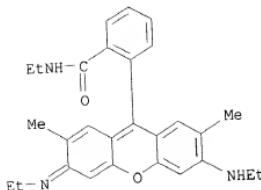
| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--|------|----------|-----------------|----------|
| DE 3425631 | A1 | 19860116 | DE 1984-3425631 | 19840712 |
| EP 167998 | A2 | 19860115 | EP 1985-108323 | 19850705 |
| EP 167998 | A3 | 19880210 | | |
| EP 167998 | B1 | 19901010 | | |
| R: CH, DE, FR, GB, IT, LI US 4647675 JP 61040363 | A | 19870303 | US 1985-753783 | 19850711 |
| | A2 | 19860226 | JP 1985-152602 | 19850712 |
| | | | DE 1984-3425631 | 19840712 |

PRIORITY APPLN. INFO.:

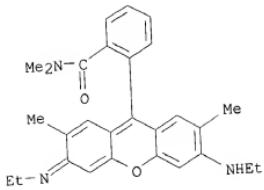
GI



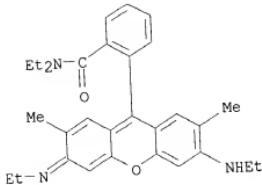
- AB Rhodamine compds. I [A⁻ = anion; n = 0-3; R, R₁, R₄ = H, (un)substituted alkyl, cycloalkyl; R₂ = H, (un)substituted alkyl, cycloalkyl, aryl, or heterocyclic ring; R₃ = H, C1-4 alkyl; R₅ = (un)substituted alkyl, cycloalkyl, H, aryl, heteroaryl, or NR₄R₅ = heterocyclic ring; X = H, Cl, Br, C1-4 alkyl, C1-4 alkoxy, NO₂] are useful for dyeing paper materials. Thus, Rhodamine 575 was amidated with PhCH₂NH₂ with the aid of POCl₃, and treated with AcOH, forming I (A = AcO, n = 0, R = R₁ = Et, R₂ = R₄ = X = H, R₃ = Me, R₅ = CH₂Ph).
- IT 105292-23-7P 105292-24-8P 105292-25-9P
 105292-26-0P 105292-27-1P 105292-28-2P
 105292-29-3P 105292-30-6P 105292-31-7P
 105292-32-8P 105292-33-9P 105292-34-0P
 105292-35-1P 105292-36-2P 105292-37-3P
 105292-38-4P 105292-39-5P 105292-40-8P
 105292-41-9P 105292-45-3P 105292-46-4P
 105292-47-5P 105292-48-6P 105292-49-7P
 105292-50-0P 105314-09-8P
 RL: IMI (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (manuf. of, as dye for paper)
- RN 105292-23-7 CAPLUS
 CN Benzamide, N-ethyl-2-[6-(ethylamino)-3-(ethylimino)-2,7-dimethyl-3H-xanthen-9-yl]- (9CI) (CA INDEX NAME)



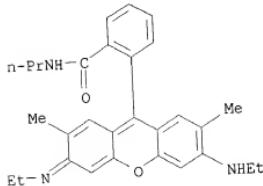
- RN 105292-24-8 CAPLUS
 CN Benzamide,
 2-[6-(ethylamino)-3-(ethylimino)-2,7-dimethyl-3H-xanthen-9-yl]-
 N,N-dimethyl- (9CI) (CA INDEX NAME)



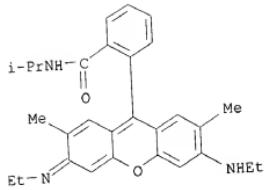
RN 105292-25-9 CAPLUS
CN Benzamide, N,N-diethyl-2-[6-(ethylamino)-3-(ethylimino)-2,7-dimethyl-3H-xanthen-9-yl]- (9CI) (CA INDEX NAME)



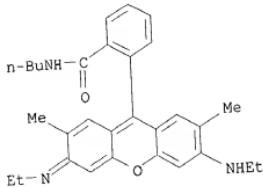
RN 105292-26-0 CAPLUS
CN Benzamide,
2-[6-(ethylamino)-3-(ethylimino)-2,7-dimethyl-3H-xanthen-9-yl]-
N-propyl- (9CI) (CA INDEX NAME)



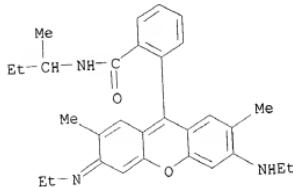
RN 105292-27-1 CAPLUS
CN Benzamide,
2-[6-(ethylamino)-3-(ethylimino)-2,7-dimethyl-3H-xanthen-9-yl]-
N-(1-methylethyl)- (9CI) (CA INDEX NAME)



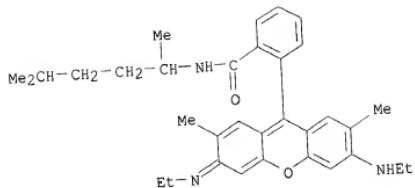
RN 105292-28-2 CAPLUS
 CN Benzamide, N-butyl-2-[6-(ethylamino)-3-(ethylimino)-2,7-dimethyl-3H-xanthen-9-yl]- (9CI) (CA INDEX NAME)



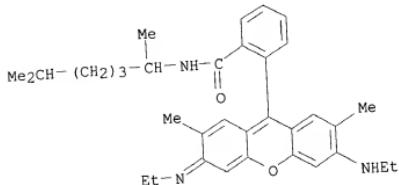
RN 105292-29-3 CAPLUS
 CN Benzamide,
 2-[6-(ethylamino)-3-(ethylimino)-2,7-dimethyl-3H-xanthen-9-yl]-
 N-(1-methylpropyl)- (9CI) (CA INDEX NAME)



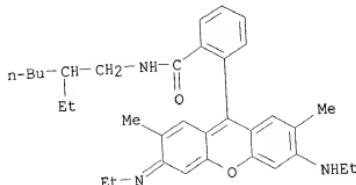
RN 105292-30-6 CAPLUS
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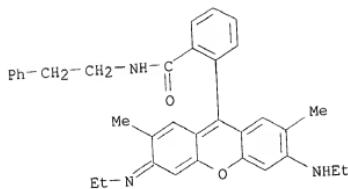
RN 105292-31-7 CAPLUS
 CN Benzamide, N-(1,5-dimethylhexyl)-2-[6-(ethylamino)-3-(ethylimino)-2,7-dimethyl-3H-xanthen-9-yl]- (9CI) (CA INDEX NAME)



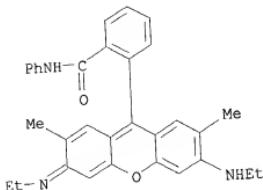
RN 105292-32-8 CAPLUS
 CN Benzamide,
 2-[6-(ethylamino)-3-(ethylimino)-2,7-dimethyl-3H-xanthen-9-yl]-
 N-(2-ethylhexyl)- (9CI) (CA INDEX NAME)



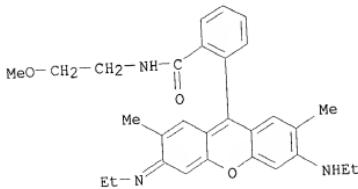
RN 105292-33-9 CAPLUS
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 2-[6-(ethylamino)-3-(ethylimino)-2,7-dimethyl-3H-xanthen-9-yl]-
 N-(2-phenylethyl)- (9CI) (CA INDEX NAME)



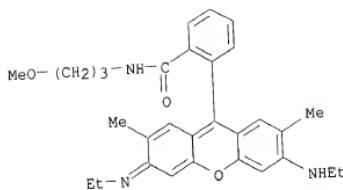
RN 105292-34-0 CAPLUS
CN Benzamide,
2-(6-(ethylamino)-3-(ethylimino)-2,7-dimethyl-3H-xanthen-9-yl)-
N-phenyl- (9CI) (CA INDEX NAME)



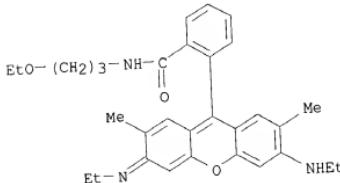
RN 105292-35-1 CAPLUS
CN Benzamide,
2-(6-(ethylamino)-3-(ethylimino)-2,7-dimethyl-3H-xanthen-9-yl)-
N-(2-methoxyethyl)- (9CI) (CA INDEX NAME)



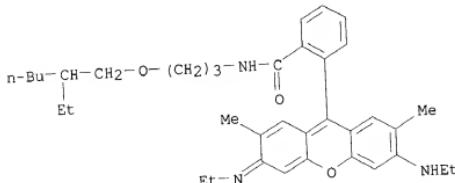
RN 105292-36-2 CAPLUS
CN Benzamide,
2-(6-(ethylamino)-3-(ethylimino)-2,7-dimethyl-3H-xanthen-9-yl)-
N-(3-methoxypropyl)- (9CI) (CA INDEX NAME)



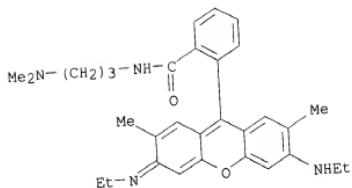
RN 105292-37-3 CAPLUS
 CN Benzamide, N-(3-ethoxypropyl)-2-[6-(ethylamino)-3-(ethylimino)-2,7-dimethyl-3H-xanthen-9-yl]- (9CI) (CA INDEX NAME)



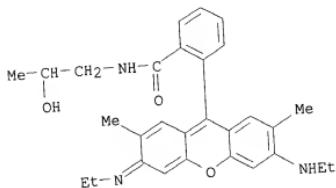
RN 105292-38-4 CAPLUS
 CN Benzamide,
 2-[6-(ethylamino)-3-(ethylimino)-2,7-dimethyl-3H-xanthen-9-yl]-
 N-[3-[(2-ethylhexyl)oxyl]propyl]- (9CI) (CA INDEX NAME)



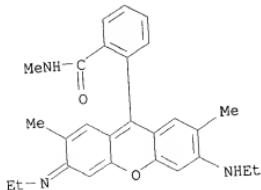
RN 105292-39-5 CAPLUS
 CN Benzamide, N-[3-(dimethylamino)propyl]-2-[6-(ethylamino)-3-(ethylimino)-2,7-dimethyl-3H-xanthen-9-yl]- (9CI) (CA INDEX NAME)



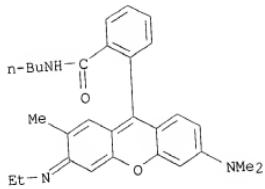
RN 105292-40-8 CAPLUS
 CN Benzamide,
 2-[6-(ethylamino)-3-(ethylimino)-2,7-dimethyl-3H-xanthen-9-yl]-
 N-(2-hydroxypropyl)- (9CI) (CA INDEX NAME)



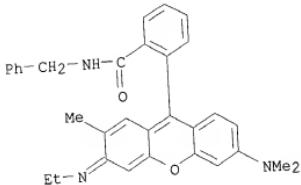
RN 105292-41-9 CAPLUS
 CN Benzamide,
 2-[6-(ethylamino)-3-(ethylimino)-2,7-dimethyl-3H-xanthen-9-yl]-
 N-methyl- (9CI) (CA INDEX NAME)



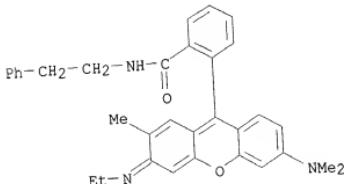
RN 105292-45-3 CAPLUS
 CN Benzamide,
 N-butyl-2-[6-(dimethylamino)-3-(ethylimino)-2-methyl-3H-xanthen-
 9-yl]- (9CI) (CA INDEX NAME)



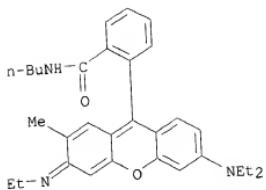
RN 105292-46-4 CAPLUS
CN Benzamide,
2-[6-(dimethylamino)-3-(ethylimino)-2-methyl-3H-xanthen-9-yl]-N-
(phenylmethyl) - (9CI) (CA INDEX NAME)



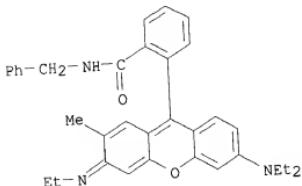
RN 105292-47-5 CAPLUS
CN Benzamide,
2-[6-(dimethylamino)-3-(ethylimino)-2-methyl-3H-xanthen-9-yl]-N-
(2-phenylethyl) - (9CI) (CA INDEX NAME)



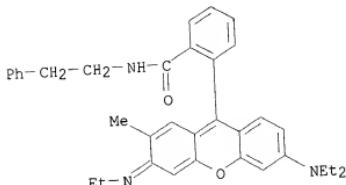
RN 105292-48-6 CAPLUS
CN Benzamide,
N-butyl-2-[6-(diethylamino)-3-(ethylimino)-2-methyl-3H-xanthen-
9-yl] - (9CI) (CA INDEX NAME)



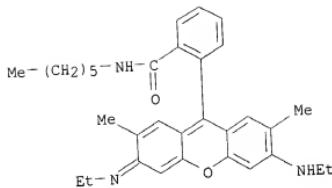
RN 105292-49-7 CAPLUS
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2-[6-(diethylamino)-3-(ethylimino)-2-methyl-3H-xanthen-9-yl]-N-
(phenylmethyl)- (9CI) (CA INDEX NAME)



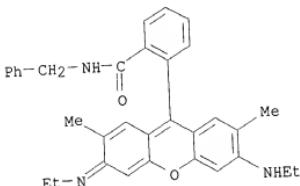
RN 105292-50-0 CAPLUS
CN Benzamide,
2-[6-(diethylamino)-3-(ethylimino)-2-methyl-3H-xanthen-9-yl]-N-
(2-phenylethyl)- (9CI) (CA INDEX NAME)



RN 105314-09-8 CAPLUS
CN Benzamide,
2-[6-(ethylamino)-3-(ethylimino)-2,7-dimethyl-3H-xanthen-9-yl]-
N-hexyl- (9CI) (CA INDEX NAME)



IT 105292-20-4P
 RL: IMF (Industrial manufacture); PREP (Preparation)
 (prepn. and acidification with acetic acid)
 RN 105292-20-4 CAPLUS
 CN Benzamide,
 CN 2-[6-(ethylamino)-3-(ethylimino)-2,7-dimethyl-3H-xanthen-9-yl]-
 2-[6-(ethylamino)-3-(ethylimino)-2,7-dimethyl-3H-xanthen-9-yl]-
 N-(phenylmethyl)- (9CI) (CA INDEX NAME)

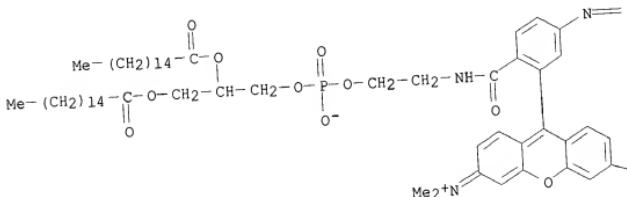


L4 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2000 ACS
 ACCESSION NUMBER: 1980:193099 CAPLUS
 DOCUMENT NUMBER: 92:193099
 TITLE: Monitoring of phospholipid vesicle fusion by
 fluorescence energy transfer between membrane-bound
 dye labels
 AUTHOR(S): Vanderwerf, Paul; Ullman, Edwin F.
 CORPORATE SOURCE: Syva Res. Inst., Palo Alto, CA, 94304, USA
 SOURCE: Biochim. Biophys. Acta (1980), 596(2), 302-14
 CODEN: BBACAO; ISSN: 0006-3002
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB A sensitive method which utilized the fluorescence energy transfer to
 assay Ca²⁺- or Mg²⁺-mediated fusion of phospholipid vesicles is reported.
 More than 85% quenching resulted when phosphatidylserine vesicles labeled
 with dansyl phosphatidylethanolamine (donor) were fused with vesicles
 labeled with rhodamine phosphatidylethanolamine (acceptor) in the
 presence of 5 mM CaCl₂ or 10 mM MgCl₂. Higher concns. of divalent cations were
 required to obtain maximal quenching when phosphatidylserine was
 partially replaced with phosphatidylethanolamine or phosphatidylcholine. The rate
 of vesicle fusion was dependent on the concns. of both cation and
 vesicles. Max. quenching occurred within 5 min using phosphatidylserine
 vesicles and 5 mM Ca²⁺, but quenching was incomplete even after 20 h with
 0.8-2 mM Ca²⁺. This probably reflects the heterogeneous size
 distribution

of these vesicles, since the extent of fusion was correlated with vesicle size. Binding of antibody to membrane-localized phenobarbital hapten effectively blocked Ca²⁺-mediated vesicle fusion. This effect was inhibited by preincubation of the antibody with phenobarbital. Leakage of tempocholine from intact vesicles induced by 5 mM Ca²⁺ occurred even when fusion was prevented by bound antibody, demonstrating that fusion is not a necessary requirement for Ca²⁺-induced leakage.

a
IT 73614-36-5
RL: PROC (Process)
(fluorescence quenching of, in phospholipid liposome fusion)
RN 73614-36-5 CAPLUS
CN Xanthylium, 3,6-bis(dimethylamino)-9-[2-[6-hydroxy-6-oxido-1,12-dioxo-9-[(1-oxohexadecyl)oxy]-5,7,11-trioxa-2-aza-6-phosphapehtacos-1-yl]-5-iso thiocyanatophenyl]-, inner salt (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B

= C ≡ S

→ NMe₂

| | | |
|--|------------|---------|
| => log Y | SINCE FILE | TOTAL |
| COST IN U.S. DOLLARS | ENTRY | SESSION |
| FULL ESTIMATED COST | 12.51 | 139.26 |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE | TOTAL |
| CA SUBSCRIBER PRICE | ENTRY | SESSION |
| | -1.67 | -1.67 |

STN INTERNATIONAL LOGOFF AT 17:06:24 ON 17 AUG 2000

